

Scientific Workforce Diversity Recruitment Tool Demo

National Institutes of Health Scientific Workforce Diversity office





Search Protocol

Myth: "I would love to hire more women and Under Represented Minorities (URMs) but they don't exist in my field!"

(Pipeline excuse)

"It takes too

"It takes too

much effort. We

don't have any

resources."

Search Protocol

Myth: "I would love to hire more women and URMs but they don't exist in my field!"

(Pipeline excuse)

"There is no one network that I can think of."

"I feel uncomfortable with diversity." "I don't want to settle for less candidates."



Search Protocol

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Myth Busting! Recruitment Search Protocol

Search Protocol: 3 Basic Steps

- 1. Position Description
- 2. Systematic bibliometric search
- 3. Grey literature, social media, and other less systematic methods

Position Description

- 1. Examine the ad
- 2. Attend the kick-off meeting of the search committee, if possible
- 3. Generate MeSH (Medical Subject Headings) related to the search
 - Determine the best search bibliometric search database (or use multiple)

How to Calibrate Career Level (or Credentials)

Best to do some exploratory benchmarking



OAR = NIH Office of AIDS Research

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Systematic Bibliometric Searching Database Examples

SCOPUS®

Web of Science™ (WOS)

Google Scholar

iSearch/iCite

Field dependent databases

Sample Comparison of Different Databases

Features	SCOPUS®	WOS™	Google Scholar
Number of journals	19,809	12,331	Unknown
Proceedings	5.3 million	110,000 (only ones that were published in journals)	Unknown
Focus	Physical sciences, health sciences, life sciences, social sciences	Science, technology, social sciences, arts and humanities	All subject areas
Period covered	1966-	1900-	Unknown

From Iowa State University Library: http://instr.iastate.libguides.com/c.php?g=120420&p=785310

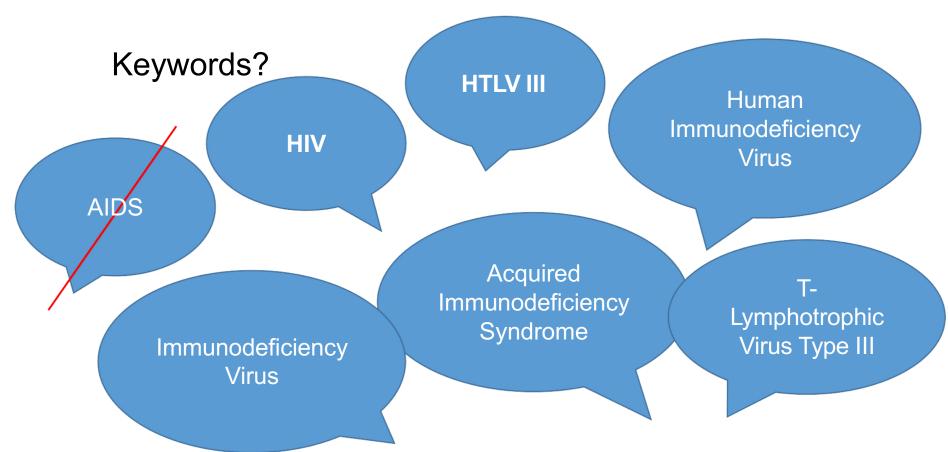
Features	SCOPUS®	WOS™	Google Scholar
Non-English	Yes	No	Yes
International	Excellent	Poor	Excellent
Interdisciplinary	Excellent	Poor	Excellent
Updated	Daily	Weekly	Unknown

Features	SCOPUS [®]	WOS™	Google Scholar
Strengths	 More versatile search tool with advantages in functionality International and interdisciplinary coverage 	 Covers high-impact journals Greater time period of coverage Better coverage of social sciences and arts/humanities than Scopus 	 Includes all types of documents - e.g., tutorials, posters, presentations Finds more citations in "most" subject areas Book coverage via Google Books and free online publications International and interdisciplinary coverage

Features	SCOPUS®	WOS™	Google Scholar
Weaknesses	 Early reports pointed out weak in social sciences and humanities Studies show still weak in sociology and physics/astronomy 	 Only journals it covers are mainstream, high-impact journals Poor coverage of interdisciplinary areas and emerging fields Difficulty searching unusual author name formats - hyphenated, umlauts, etc. 	 Hard to search common author names Few sorting options Questionable content quality Many non-peer-reviewed sources Have to create a Scholar Citation Profile to create reports

Example: Associate Director for AIDS Research

Identifying some of the best HIV/AIDS researchers



AVOID USING VERBS OR DOUBLE MEANING KEYWORDS

	Document title	Authors	Year	Source	Cited by
□ 1	Prescreening whole exome sequencing results from patients with retinal degeneration for variants in genes associated with retinal degeneration	Bryant, L., Lozynska, O., Maguire, A.M., Aleman, T.S., Bennett, J.	2018	Clinical Ophthalmology 12, pp. 49-63	0
	View abstract View at Publisher Related documents				
☐ 2	A model of HIV/AIDS population dynamics including ARV treatment and pre-exposure prophylaxis	Nsuami, M.U., Witbooi, P.J.	2018	Advances in Difference Equations 2018(1),11	0
	View abstract View at Publisher Related documents				
□ 3	Approach to undifferentiated dyspnea in emergency department: aids in rapid clinical decision-making	Guttikonda, S.N.R., Vadapalli, K.	2018	International Journal of Emergency Medicine 11(1),21	0
	View abstract View at Publisher Related documents				
□ 4	Effect of cyclic butylene terephthalate oligomer on the properties of styrene-butadiene and acrylonitrile-butadiene rubbers	Halász, I.Z., Bárány, T.	2018	Periodica Polytechnica Chemical Engineering 62(1), pp. 32-42	0
	View abstract View at Publisher Related documents				
<u> </u>	Frequent implementation of interventions may increase HIV infections among MSM in	Sun, X., Xiao, Y., Peng, Z., Wang, N.	2018	Scientific Reports	0





Sources

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HIV



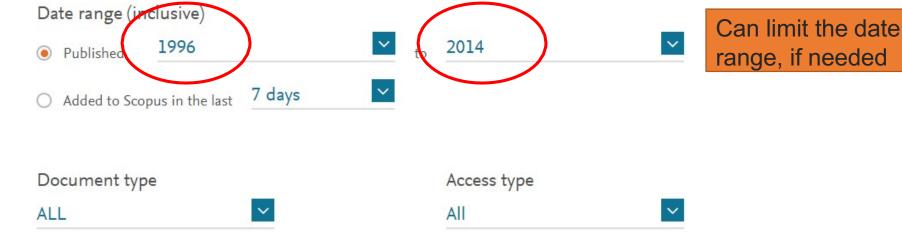
Article title, Abstract, Keywords



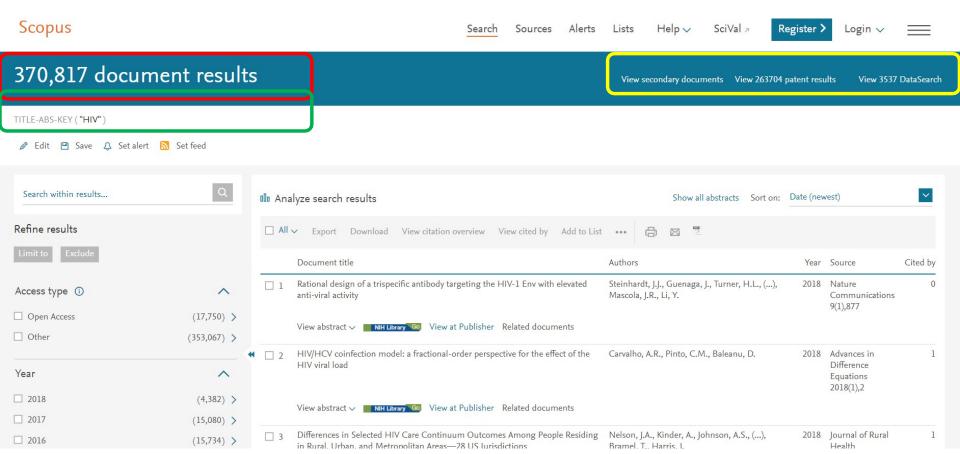


E.g., "Cognitive architectures" AND robots

√ Limit

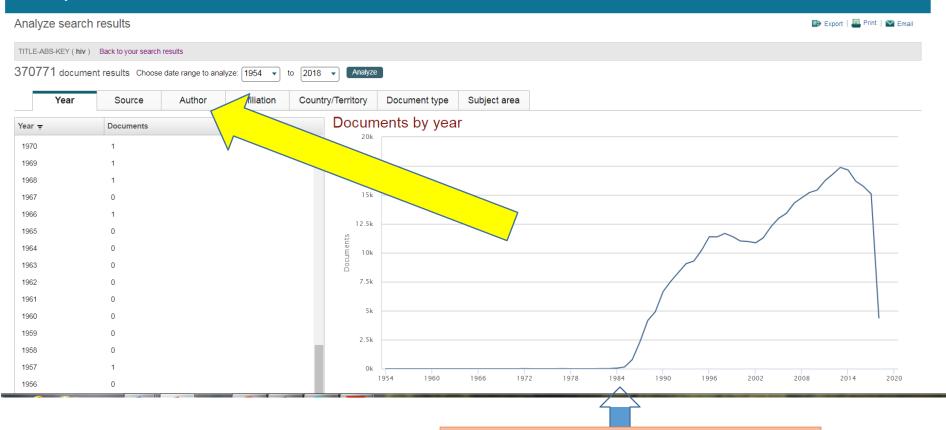


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1	Rational design of a transport targeting the HIV-1 Env with elevated anti-viral activity	Steinhardt, J.J., Guenaga, J., Turner, H.L., (), Mascola, J.R., Li, Y.	2018	Nature Communications 9(1),877	0
	View abstract View at Publish Related documents				
2	HIV/HCV coinfection model: a fractional-order perspective for the effect of the HIV viral load	Carvalho, A.R., Pinto, C.M., Baleanu, D.	2018	Advances in Difference Equations 2018(1),2	1
	View abstract ✓ ■ NIH Library © View at Publisher Related documents				
3	Differences in Selected HIV Care Continuum Outcomes Among People Residing in Rural, Urban, and Metropolitan Areas—28 US Jurisdictions	Nelson, J.A., Kinder, A., Johnson, A.S., (), Bramel, T., Harris, J.	2018	Journal of Rural Health 34(1), pp. 63-70	1
	View abstract ✓ ■ NIH Library © View at Publisher Related documents				
4	Decreased bone turnover in HIV-infected children on antiretroviral therapy	Shiau, S., Yin, M.T., Strehlau, R., (), Coovadia, A., Arpadi, S.M.	2018	Archives of Osteoporosis	0

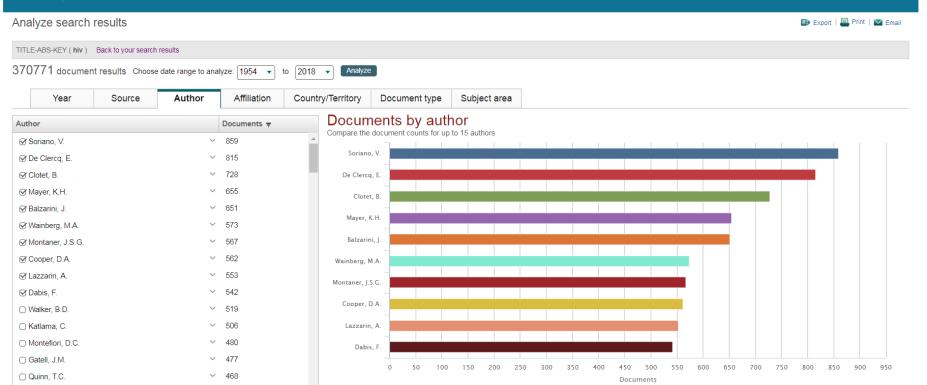
Analyze search results



Can get a sense of when research really started "taking-off"

For HIV/AIDS research, mid-80s.

Analyze search results



Alternative Method

Analyze search results Analyze search results ■ Export | ■ Print | ➤ Email TITLE-ABS-KEY (hiv) Back to your search results 370771 document results Choose date ra Analyze to 2018 Year Source Author Document type Subject area nts by author Author Documents = s for up to 15 authors Soriano, V. 859 Soriano, Ø De Clercq, E. 815 Clotet, B. 728 De Clercq, E. 655 Clotet, B. 651 Mayer, K.H. Wainberg, M.A. 573 Balzarini, J. Montaner, J.S.G. 567 ✓ Cooper, D.A. 562 Wainberg, M.A. ✓ Lazzarin, A. 553 Montaner, J.S.G. ☑ Dabis, F. Cooper, D.A. ○ Walker, B.D. 519 C. Katlama, C. 506 Lazzarin, A. O Montefiori, D.C. 480 Gatell, J.M. 450 500 550 600 650 700 750 800

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☐ Open Access	(17,750) >		View abstract V NIH Library GO View at Publishe	er Related documents			
Other	(353,067) >						
Year	^	₩ 🗌 2	HIV/HCV coinfection model: a fractional-order perspective for the effect of the HIV viral load	Carvalho, A.R., Pinto, C.M., Baleanu, D.	2018	Advances in Difference Equations 2018(1),2	1
□ 2018	(4,382) >		View abstract ✓ NIH Library © View at Publishe	er Related documents			
□ 2017	(15,080) >						
□ 2016	(15,734) >	□ 3	Differences in Selected HIV Care Continuum Outcomes Among People Residing in Rural,	Nelson, J.A., Kinder, A., Johnson, A.S., (), Bramel, T.,	2018	Journal of Rural Health	1
□ 2015	(16,182) >		Urban, and Metropolitan Areas—28 US Jurisdictions	Harris, J.		34(1), pp. 63-70	
□ 2014	(17,149) >		View abstract V NIH Library GO View at Publishe	er Related documents			
View more			Decreased bone turnover in HIV-infected children	China C. Vin M.T. Charles	2010	Archives of	
Author name	^	□ 4	on antiretroviral therapy	Shiau, S., Yin, M.T., Strehlau, R., (), Coovadia, A., Arpadi, S.M.	2010	Osteoporosis 13(1),40	0
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☐ Mayer, K.H.	(655) >					2018(1),11	
☐ Balzarini, J.	(652) >		new abstract ✓ NIH LIDRARY WIEW at Publishe	er Related documents			
View more		□ 6	Effect of cellular reservoirs and delays on the global dynamics of HIV	Elaiw, A.M., Elnahary, E.K., Raezah, A.A.	2018	Advances in Difference	0
Subject area	^					Equations	

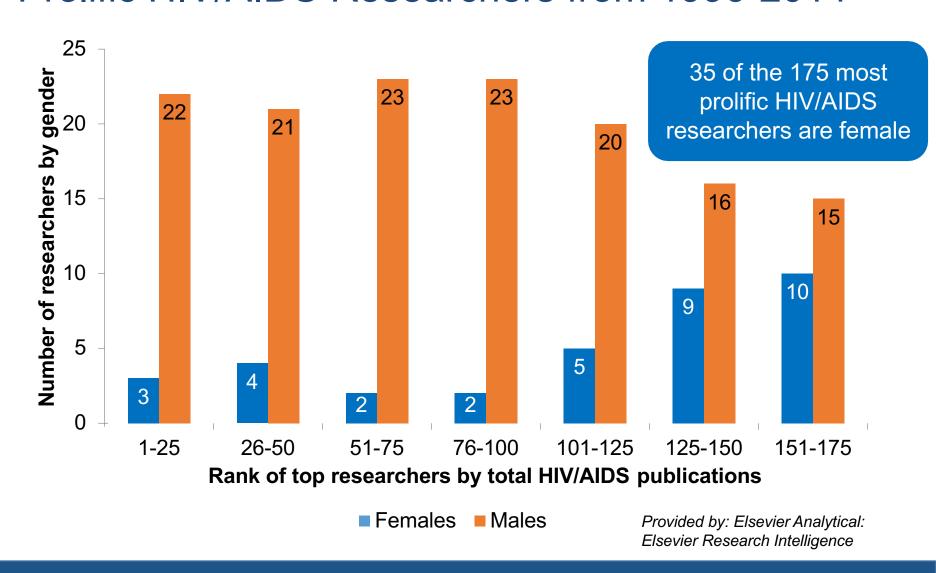
Author name ^ □ Soriano, V. (859) > □ De Clercq, E. (816) > □ Clotet, B. (728) > □ Mayer, K.H. (655) > □ Balzarini, J. (652) > View more

Author name Soriano, V. (859) > De Clercq, E. (816) > Clotet, B. (728) > Mayer, K.H. (655) > Balzarini, J. (652) > Wainberg, M.A. (573) > Cooper, D.A. (562) > Lazzarin, A. (553) > Dabis, F. (542) > Montaner, J.S.G. (539) > View less View all

Now... the hard part

We suggest searching social media and other online sources to confirm diversity characteristics as well as other qualifications...

Distribution of Women Among 175 Most Prolific HIV/AIDS Researchers from 1996-2014



Comparison by Gender of Research Indicators

	Females	Males	Mann- Whitney test
Number of researchers in top 175	35	140	
Median number of publications	214	271	***
Median percentage of publications on HIV/AIDS	94.19%	89.16%	**
Median Field-Weighted Citation Impact	2.56	2.60	
Median Field-Weighted Citation Impact on HIV/AIDS	2.57	2.70	

^{*} p<0.05, ** p<0.01, *** p<0.001

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Top Institution Strategy

- Top institutions in the field:
 - University of California (UC) San Diego AIDS Research Institute
 - Lifespan/Tufts/Brown Center for AIDS Research
 - The Scripps Research Institute
 - Harvard University Center for AIDS research
 - UC San Francisco Infectious diseases



UC San Diego AIDS Research Institute





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The HIV Institute - University of California San Diego

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Since the 1980s, HIV/AIDS research at UC San Diego has been at the forefront of discoveries that shape care and treatment standards on a global scale. Ranked second only to Harvard as one of the highest impact institutions in HIV/AIDS research (Science 321:521, 2008), the UC San Diego HIV Institute and our affiliated ...

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Center for AIDS Research Funding Renewed for an Old and On-Going Fight

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San Diego Center awarded AIDS research grant

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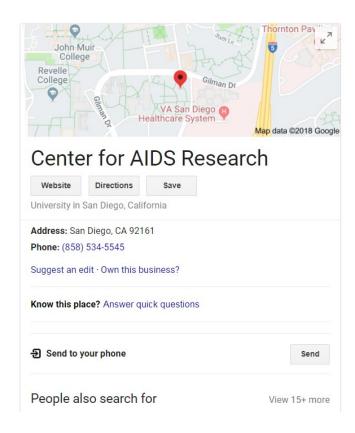
→ More for UC San Diego AIDS Research Institute

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https://cfar.ucsd.edu/ ▼

Partner services in adults with acute and early HIV infection. AIDS. 2017;31(2):287-293. PMID: 27831950. PMCID: 5177524. View previous Directors' Choice selections. Investigators: Do you use CFAR services in your research? Please cite the CFAR in your publications and presentations. LEARN MORE. NIH Co-Funding ...

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Other Strategies



Additional Resources

Email us at diversitycatalysts@nih.gov

NIH Scientific Workforce Diversity Toolkit

The U.S. scientific research enterprise - from basic laboratory research to clinical and translational research to policy - requires intellect, creativity, and diverse skill sets and viewpoints.

Diversity

- ... enhances excellence, creativity, and innovation
- ... broadens the scope of biomedical inquiry
- ... addresses health disparities
- ... ensures fairness in our highly diverse nation



https://diversity.nih.gov/toolkit